

AMENDED CLAIMS:

1. A supercharged gas turbine engine comprising:

an open-cycle core gas turbine engine for generating shaft power output, said core gas turbine engine includes a multi-stage compressor, ~~the~~ a first stage of which the multi-stage compressor being a rotary ram compressor;

a supercharger for supercharging intake air of the core engine, wherein said supercharger includes a rotary ram-in compressor and a turbine, and wherein said turbine has variable-area nozzle assembly and is driven by gases discharged from the core engine;

operator controlled means for elective partial bleeding ~~variable part~~ of the gases discharged from the core engine and supplied to the supercharger's turbine;

at least one pressure sensor for detecting the degree of rise in the pressure of air supplied by the supercharger's compressor;

means for adjusting the area of the nozzles of the supercharger's turbine according to the detected degree of rise in the air pressure; and

means for adjusting the rate of fuel supply to the core engine according to the pressure level of air supplied by the supercharger's compressor.

2. A supercharged gas turbine engine comprising:

an open-cycle core gas turbine engine for generating shaft power output, said core gas turbine engine includes a multi-stage compressor, ~~the~~ a first stage of which the multi-stage compressor being a rotary ram-in compressor;

a supercharger for supercharging intake air of the core engine, wherein said supercharger includes a rotary ram-in compressor and a turbine, and wherein said turbine has variable-area nozzle assembly and is driven by gases discharged from the core engine;

operator controlled means for elective partial bleeding ~~variable part~~ of the gases discharged from the core engine and supplied to the supercharger's turbine;

at least one pressure sensor for detecting the degree of rise in the pressure of air supplied by the supercharger's compressor;

means for adjusting the area of the nozzles of the supercharger's turbine according to the detected degree of rise in the air pressure; and

means for adjusting the rate of fuel supply to the core engine according to the pressure level of air supplied by the supercharger's compressor.

CONCLUSION

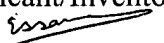
The amendments were formal only and no new matter is introduced. If any issues remain outstanding, incident to the allowance of the application, Examiner Trieu is respectfully requested to contact the undersigned at (919) 605-5306 or via email at

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This Office Action response is submitted via USPS Express Mail to the USPTO on March 1, 2005.

Respectfully submitted,

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